SEQUENCE LISTING

<110> Rowe, Peter

<120> A Novel Polypeptide Hormone Phosphatonin

<130> VOSS001

<140> US 09/700,696
<141> 2000-11-17

<150> PCT EP99/03403
<151> 1999-05-18

<150> GB 9810681.8
<151> 1998-05-18

<150> GB 9819387.3
<151> 1998-09-04

<160> 25

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 1655
<212> DNA
<213> Homo sapiens

<400> 1
gtgaataaag aatatagtat cagtaacaaa gagaatactc acaatggcct gaggatgtca 60
atttatccta agtcaactgg gaataaaggg tttgaggatg gagatgatgc tatcagcaaa 120
ctacatgacc aagaagaata tggcgcagct ctcatcagaa ataacatgca acatataatg 180
gggccagtga ctgcgattaa actcctgggg gaagaaaaca aagagaacac acctaggaat 240
gttctaaaca taatcccagc aagtatgaat tatgctaaag cacactcgaa ggataaaaag 300
aagcctcaaa gagattccca agcccagaaa agtccagtaa aaagcaaaag cacccatcgt 360
attcaacaca acattgacta cctaaaacat ctctcaaaag tcaaaaaaat ccccagtgat 420
tttgaaggca gcggttatac agatcttcaa gagagagggg acaatgatat atctcctttc 480
agtggggacg gccaaccttt taaggacatt cctggtaaag gagaagctac tggtcctgac 540
ctagaaggca aagatattca aacagggttt gcaggcccaa gtgaagctga gagtactcat 600
cttgacacaa aaaagccagg ttataatgag atcccagaga gagaagaaaa tggtggaaat 660
accattggaa ctagggatga aactgcgaaa gaggcagatg ctgttgatgt cagccttgta 720
gagggcagca acgatatcat gggtagtacc aattttaagg agctccctgg aagagaagga 780
aacagagtgg atgctggcag ccaaaatgct caccaaggga aggttgagtt tcattaccct 840
cctgcaccct caaaagagaa aagaaaagaa ggcagtagtg atgcagctga aagtaccaac 900
tataatgaaa ttcctaaaaa tggcaaaggc agtaccagaa agggtgtaga tcattctaat 960
aggaaccaag caaccttaaa tgaaaaacaa aggtttccta gtaagggcaa aagtcagggc 1020
ctgcccattc cttctcgtgg tcttgataat gaaatcaaaa acgaaatgga ttcctttaat 1080
ggccccagtc atgagaatat aataacacat ggcagaaaat atcattatgt accccacaga 1140
caaaataatt ctacacggaa taagggtatg ccacaaggga aaggctcctg gggtagacaa 1200
ccccattcca acaggaggtt tagttcccgt agaagggatg acagtagtga gtcatctgac 1260
agtggcagtt caagtgagag cgatggtgac tagtccacca ggagttccca gcggggtgac 1320
agtctgaaga cctcgtcacc tgtgagttga tgtagaggag agccacctga cagctgacca 1380

ggtgaagaga ggatagagtg aagaactgag tgagccaaga atcctggtct ccttggggga 1440
atttttgcta tcttaatagt cacagtataa aattctatta aaggctataa tgtttttaag 1500
caaaaaaaaa tcattacaga tctatgaaat aggtaacatt tgagtaggtg tcatttaaaa 1560
atagttggtg aatgtcacaa atgccttcta tgttgtttgc tctgtagaca tgaaaataaa 1620
caatatctct cgatgataaa aaaaaaaaaa aaaaa 1655

<210> 2
<211> 430
<212> PRT
<213> Homo sapiens

<400> 2

```
Val Asn Lys Glu Tyr Ser Ile Ser Asn Lys Glu Asn Thr His Asn Gly
 1               5                  10                  15
Leu Arg Met Ser Ile Tyr Pro Lys Ser Thr Gly Asn Lys Gly Phe Glu
            20                  25                  30
Asp Gly Asp Asp Ala Ile Ser Lys Leu His Asp Gln Glu Glu Tyr Gly
        35                  40                  45
Ala Ala Leu Ile Arg Asn Asn Met Gln His Ile Met Gly Pro Val Thr
    50                  55                  60
Ala Ile Lys Leu Leu Gly Glu Glu Asn Lys Glu Asn Thr Pro Arg Asn
65                  70                  75                  80
Val Leu Asn Ile Ile Pro Ala Ser Met Asn Tyr Ala Lys Ala His Ser
                85                  90                  95
Lys Asp Lys Lys Lys Pro Gln Arg Asp Ser Gln Ala Gln Lys Ser Pro
            100                 105                 110
Val Lys Ser Lys Ser Thr His Arg Ile Gln His Asn Ile Asp Tyr Leu
        115                 120                 125
Lys His Leu Ser Lys Val Lys Lys Ile Pro Ser Asp Phe Glu Gly Ser
    130                 135                 140
Gly Tyr Thr Asp Leu Gln Glu Arg Gly Asp Asn Asp Ile Ser Pro Phe
145                 150                 155                 160
Ser Gly Asp Gly Gln Pro Phe Lys Asp Ile Pro Gly Lys Gly Glu Ala
                165                 170                 175
Thr Gly Pro Asp Leu Glu Gly Lys Asp Ile Gln Thr Gly Phe Ala Gly
            180                 185                 190
Pro Ser Glu Ala Glu Ser Thr His Leu Asp Thr Lys Lys Pro Gly Tyr
        195                 200                 205
Asn Glu Ile Pro Glu Arg Glu Glu Asn Gly Gly Asn Thr Ile Gly Thr
    210                 215                 220
Arg Asp Glu Thr Ala Lys Glu Ala Asp Ala Val Asp Val Ser Leu Val
225                 230                 235                 240
Glu Gly Ser Asn Asp Ile Met Gly Ser Thr Asn Phe Lys Glu Leu Pro
                245                 250                 255
Gly Arg Glu Gly Asn Arg Val Asp Ala Gly Ser Gln Asn Ala His Gln
            260                 265                 270
Gly Lys Val Glu Phe His Tyr Pro Pro Ala Pro Ser Lys Glu Lys Arg
        275                 280                 285
Lys Glu Gly Ser Ser Asp Ala Ala Glu Ser Thr Asn Tyr Asn Glu Ile
    290                 295                 300
Pro Lys Asn Gly Lys Gly Ser Thr Arg Lys Gly Val Asp His Ser Asn
305                 310                 315                 320
Arg Asn Gln Ala Thr Leu Asn Glu Lys Gln Arg Phe Pro Ser Lys Gly
                325                 330                 335
Lys Ser Gln Gly Leu Pro Ile Pro Ser Arg Gly Leu Asp Asn Glu Ile
```

```
        340                 345                 350
Lys Asn Glu Met Asp Ser Phe Asn Gly Pro Ser His Glu Asn Ile Ile
        355                 360                 365
Thr His Gly Arg Lys Tyr His Tyr Val Pro His Arg Gln Asn Asn Ser
    370                 375                 380
Thr Arg Asn Lys Gly Met Pro Gln Gly Lys Gly Ser Trp Gly Arg Gln
385                 390                 395                 400
Pro His Ser Asn Arg Arg Phe Ser Ser Arg Arg Arg Asp Asp Ser Ser
                405                 410                 415
Glu Ser Ser Asp Ser Gly Ser Ser Ser Glu Ser Asp Gly Asp
            420                 425                 430
```

<210> 3
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> glycosaminoglycan attachment motif

<400> 3
Ser Gly Asp Gly
 1

<210> 4
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> metalloproteinase cleavage site

<400> 4
Ala Asp Ala Val Asp Val Ser
 1   5

<210> 5
<211> 22
<212> PRT
<213> Homo sapiens

<400> 5
Ser Ser Arg Arg Arg Asp Asp Ser Ser Glu Ser Ser Asp Ser Gly Ser
 1   5   10   15
Ser Ser Glu Ser Asp Gly
            20

<210> 6
<211> 21
<212> PRT
<213> Homo sapiens